TestBench Software

Problems with the labview code

It has a huge memory leak (can't take many events without killing Windows)

It is slow

Data anlysis is a separate step, taking time and risking error

Code maintenance is painful

It hangs sometimes

Can't safely abort a test!

New C++ Code

Analyze/plot data online while communication with FEM is taking place

1000 events is \sim 30 times faster than the labyiew code

No memory leaks

Easy maintenance (especially for me, the primary user)

Easy for others to use: data taking and database upload with one button push

Clean, responsive GUI

More intelligent handshaking with the FEM

I have detailed control of timing via multithreading

The code is still in development. Configuration is hard-coded, but will be put in a GUI. Pedestal test works fine.

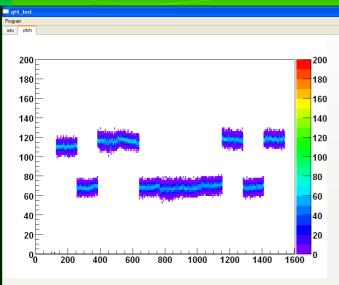
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0280 0380 0480 0580 0680 0780 0880 0980 0A80 0B80 0C80 0D80 0E80 0F80 1080 1180 1280 1380 1480 1580 1680 1780 1880 1980 1A80 1B80 1C80 1D80 1F80 1F80 2080 2180 2280 2380 2480 2580 2680 2780 2880 2980 2A80 2B80 2C80 2D80 2E80 2F80 3080 3180 3280 3380 3480 3580 3680 3780 3880 3980 3A80 3B80 3C80 3D80 3E80 3E80 4080 4180 4280 4380 4480 4580 4680 4780 4880 4980 4A80 4B80 4C80 4D80 4F80 4F80 5080 5180 5280 5380 5480 5580 5680 5780 5880 5980 5A80 5B80 5C80 5D80 5E80 5E80 6080 6180 6280 6380 6480 6580 6680 6780 6880 6980 6A80 6B80 6C80 6D80 6E80 6E80 7080 7180 7280 7380 7480 7500 7600 7700 7880 7980 7A80 7B80 7C80 7D80 7E80 7E80 820F 0049 015F 025B 0359 0459 0559 0649 075F 0858 095A 0A59 0B5D 0C58 0D59 0E54 0E5B 105B 115E 125E 1348 145E 1548 1648 175A 185E 195A 1A5A 1B59 1C5B 1D5B 1E5E 1E5D 205F 215E 225B 2358 245A 255A 2648 275E 285A 295F 2A58 2B59 2C59 2D5B 2E58 2F58 305A 3159 325B 3348 3458 3558 3658 3748 385D 3949 3A5B 3B5D 3C58 3D54 3E54 3E5C 4058 415E 425B 4358 445E 455D 4659 475B 4859 495B 4A5A 4B5A 4C59 4D5F 4E48 4F5B 5058 515B 5258 535E 545A 555B 5648 575F 585D 595F 5A48 5B48 5C58 5D5B 5E5F 5F5E 605D 6159 625A 635A 6448 6548 665A 675F 6859 695B 6A59 6B5B 6C59 6D48 6E5B 6E5B 705E 7148 7249 735B 745F 7548 7659 7759 784B 7958 7A5B 7B58 7C5E 7D49 7F4A 7F5F 830F 0061 0162 0264 0363 0461 0562 0665 0765 0867 0963 0A64 0B67 0C60 0D62 0E64 0E66 1060 1166 1263

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A Few Words about the Tracking Software

I have been working with Richard Petti (Axel's student), helping him to use (and extend) the tracking code to identify conversion electrons. So we have a bit more manpower.

I don't know how much time I'll have to work on the software. In principle putting the tracking algorithm into the PHENIX code shouldn't be difficult, though there are only a few parts of the code for which I would advocate copying and pasting. The algorithm is sound, but the code is written to be friendly for testing and experimenting, not for production.

I have some ideas on how to expedite the inclusion of the event display in online monitoring. I would like input on just what we would like to have in such a display. Maybe it will just be used for debugging of the tracking (as I have used it) and not for online monitoring.